

# **Haloalkane And Haloacid Dehalogenases From Aerobic Bacterial Isolates Indigenous To Contaminated Sites In Africa Demonstrate Diverse Substrate Specificities [An Article From: Chemosphere] [HTML] [Digi By A.O. Olaniran;D. Pillay;B. Pillay**

**By A.O. Olaniran;D. Pillay;B. Pillay**

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The haloalkane dehalogenase and an Sequence analysis indicates that the haloacid dehalogenase belongs to { 1994 KluwerAcademic Publishers. Printed in the <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.318.9509>

**Degradation of D,L-2-chloropropionic Acid by -**

L-specific dehalogenase is very useful for degradation of toxic 2-haloalkanoic acids Haloalkane and haloacid dehalogenases from aerobic bacterial <http://scialert.net/fulltext/?doi=biotech.2009.264.269>

### **Detoxification of environmental mutagens and -**

Detoxification of environmental mutagens and carcinogens: Structure, sEH and haloalkane and haloacid dehalogenases to haloalkane and haloacid

<http://www.pnas.org/content/96/19/10637.full>

### **of microbial hydrolytic dehalogenation -**

haloacid dehalogenases and haloalkane dehalogenases. above, primary sequences are known for three haloalkane dehalogenases (DhlA, LinB and

<http://pac.iupac.org/publications/pac/pdf/1998/pdf/7007x1375.pdf>

### **HE Printed in U.S.A. DL-2- Haloacid Dehalogenase -**

These enzymes include 2-haloacid dehalogenases (EC haloacetate dehalogenases (EC 3.8.1.3), haloalkane dehalogenases CoA dehalogenases from *Pseudomonas* sp

<http://www.jbc.org/content/274/30/20977.full.pdf>

### **Characteristics of dehalogenase from bacteria -**

(2004) Haloalkane and haloacid dehalogenases from aerobic bacterial isolates indigenous to contaminated sites in Africa demonstrate diverse substrate specificities.

<http://www.scirp.org/journal/PaperInformation.aspx?paperID=21862>

### **Inverting hydrolases and their use in -**

This process has been verified for haloalkane dehalogenases blocks and covers recent advances and novel processes involving haloacid and haloalkane dehalogenases.

<http://europepmc.org/articles/PMC3725421>

### **Taylor & Francis Online :: Screening and -**

aerobic bacterial isolates indigenous Pillay, B. 2004. Haloalkane and haloacid dehalogenases from aerobic bacterial isolates indigenous to contaminated sites

<http://www.tandfonline.com/doi/full/10.1080/10889868.2013.834868>

### **Expression, purification and preliminary X-ray -**

1-2-Haloacid dehalogenases (1-DEX) 1997; Li et al., 1998), haloalkane dehalogenase (Verschueren et al., 1993; Pries et al., 1994,

<http://europepmc.org/articles/PMC2335131>

### **Purification and Properties of Haloalkane -**

Purification and Properties of Haloalkane Dehalogenase from Two kinds of haloacid dehalogenases, haloacetate, dehalogenase haloalkane dehalogenase,

<http://jb.asm.org/content/169/9/4049.full.pdf>

### **Sequence- and activity-based screening of -**

Sequence- and activity-based screening of microbial genomes for novel dehalogenases. Four new 1-2-haloacid dehalogenases from For haloalkane dehalogenases, <http://onlinelibrary.wiley.com/doi/10.1111/j.1751-7915.2009.00155.x/full>

### **Marine Rhodobacteraceae L- haloacid dehalogenase -**

Marine Rhodobacteraceae L-haloacid dehalogenase contains a novel activity in other L-haloacid dehalogenases are water in haloalkane dehalogenases. <http://www.sigmaldrich.com/catalog/papers/23384397>

### **Haloalkane and haloacid dehalogenases from -**

from aerobic bacterial isolates indigenous to contaminated sites in Africa demonstrate diverse substrate specificities [An [An article from: Chemosphere <http://www.amazon.com/Haloalkane-dehalogenases-contaminated-demonstrate-specificities/dp/B000RQYR8S>

### **Three-dimensional Structure of 1-2- Haloacid -**

from Xanthobacter autotrophicus GJ10 Complexed with the -2-haloacid dehalogenases from 1-2-haloacid dehalogenase. The haloalkane <http://www.jbc.org/content/272/52/33015.full>

### **Haloalkane dehalogenase - Wikipedia, the free -**

In enzymology, a haloalkane dehalogenase (EC) is an Structurally,haloalkane dehalogenases belong to the alpha/beta-hydrolase superfamily. [http://en.wikipedia.org/wiki/Haloalkane\\_dehalogenase](http://en.wikipedia.org/wiki/Haloalkane_dehalogenase)

### **GENETICS AND BIOCHEMISTRY OF DEHALOGENATING -**

Haloalkane dehalogenases have been identified in organisms capable The characteristics of other hydrolytic haloacid and haloalkane dehalogenases <http://www.annualreviews.org/doi/pdf/10.1146/annurev.mi.48.100194.001115>

### **f2:Sequence and activity based screening of -**

sequence determinants are necessary to harness genome sequencing-efforts for accelerating the discovery of novel dehalogenases with and haloacid dehalogenase [http://openi.nlm.nih.gov/detailedresult.php?img=3815952\\_mbt0003-0107-f2&req=4](http://openi.nlm.nih.gov/detailedresult.php?img=3815952_mbt0003-0107-f2&req=4)

### **Structure and mechanism of bacterial dehalogenases -**

The structures and general mechanism of haloalkane and haloacid dehalogenases. (a) Structure of the haloalkane dehalogenase from X. autotrophicus <http://www.sciencedirect.com/science/article/pii/S0959440X03001672>

### **Characterization of two bacteria isolated from a -**

The online platform for Taylor & Francis Group Haloalkane and haloacid dehalogenases from aerobic bacteria indigenous to contaminated sites in Africa demonstrate

<http://www.tandfonline.com/doi/full/10.1080/0020723042000286365>

### **Detoxification of Environmental Mutagens and -**

Detoxification of environmental mutagens and carcinogens: Structure, kane and haloacid dehalogenases proteins ancestral to haloalkane and haloacid

<http://www.jstor.org/stable/info/48805>

### **Pyrophosphatase PpaX (IPR023733) -**

They are divided into haloalkane dehalogenases and haloacid dehalogenases (HAD Signatures from InterPro member databases are used to construct an entry.

<http://www.ebi.ac.uk/interpro/entry/IPR023733>

### **CiteSeerX Purification and characterization of -**

Purification and characterization of haloalcohol dehalogenase from DL-2-haloacid dehalogenase, from Degradation of n-haloalkanes and a,w-dihaloalkanes by wild

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.523.6879>

### **Genetics and biochemistry of 1,2-dichloroethane -**

The haloalkane dehalogenase and an aldehyde belongs to the L-specific 2-chloropropionic acid dehalogenases. and biochemistry of 1,2-dichloroethane

<http://link.springer.com/article/10.1007/BF00696463>

### **Phylogenetic diversity and characterization of 2- -**

2-haloacid dehalogenases with Haloalkane and haloacid dehalogenases from aerobic and characterization of 2-haloacid degrading

<http://link.springer.com/article/10.1007%2Fs11274-010-0636-8>

### **Protocols and Video Articles Authored by Halina R -**

Halina R. Novak is the author of this article in the Journal of Visualized Experiments: "Determination of Protein-ligand Interactions Using Differential Scanning

[http://www.jove.com/author/Halina+R.\\_Novak](http://www.jove.com/author/Halina+R._Novak)

### **Olaniran, A.O., Pillay, D. and Pillay, B. (2004) -**

Olaniran, A.O., Pillay, D. and Pillay, B. (2004) Haloalkane and haloacid dehalogenases from aerobic bacterial isolates indigenous to contaminated sites in Africa

<http://www.scirp.org/reference/ReferencesPapers.aspx?ReferenceID=522953>

### **Reaction Mechanism of DL-2- Haloacid Dehalogenase -**

Hydrolytic Dehalogenation Not Involving Enzyme-Substrate Ester L-2-Haloacid dehalogenase, haloalkane dehalogenase, 2-Haloacid dehalogenases

<http://www.kuicr.kyoto-u.ac.jp/icr/report/1999/v6-p46.pdf>

### **f4:Sequence and activity based screening of -**

sequence determinants are necessary to harness genome sequencing-efforts for accelerating the discovery of novel dehalogenases with and haloacid dehalogenase

[http://openi.nlm.nih.gov/detailedresult.php?img=3815952\\_mbt0003-0107-f4&req=4](http://openi.nlm.nih.gov/detailedresult.php?img=3815952_mbt0003-0107-f4&req=4)

### **British Library EThOS: Biochemical and structural -**

Biochemical and structural characterisation of dehalogenases from marine bacteria An L-haloacid dehalogenase and a haloalkane dehalogenase gene were

<http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.552960>

### **Dehalogenase - Wikipedia, the free encyclopedia -**

-2-haloacid dehalogenase (S)-2-haloacid dehalogenase; Haloalkane dehalogenase; Halohydrin dehalogenase; Haloacetate dehalogenase;

<http://en.wikipedia.org/wiki/Dehalogenase>

### **The database of epoxide hydrolases and haloalkane -**

The epoxide hydrolases and haloalkane dehalogenases (EH/HD) database is based on the (5 families of EHs, 2 families of HDs, and 1 family of haloacid dehalogenases)

[http://elib.uni-stuttgart.de/opus/volltexte/2006/2669/pdf/Barth\\_2004a.pdf](http://elib.uni-stuttgart.de/opus/volltexte/2006/2669/pdf/Barth_2004a.pdf)

### **Comparative studies of genes encoding thermostable -**

Without B. Purification and characterization of hydrolytic haloalkane dehalogenase and nonthermostable 2-haloacid dehalogenases with different

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC201812/>

### **Microbial dehalogenation Dick B Janssen , Jantien -**

Microbial dehalogenation Janssen, Oppentocht and Poelarends 257 organisms. The classical haloacid dehalogenases are usually regulated, which is not surprising because

<http://www.qub.ac.uk/mlpage/courses/level3/meb/cobdehalogenaseJanssen2001.pdf>

### **CORE: Connecting Repositories -**

The structurally characterized haloalkane dehalogenases, haloacid dehalogenases and 4 The available information on the various dehalogenases supports different

<http://core.ac.uk/display/12928172>

## **BIOINFORMATICS APPLICATIONS NOTE -**

BIOINFORMATICS APPLICATIONS NOTE Vol.20no The epoxide hydrolases and haloalkane dehalogenases 2 families of HDs and 1 family of haloacid dehalogenases)  
<http://bioinformatics.oxfordjournals.org/content/20/16/2845.full.pdf>

## **A review on non-stereospecific haloalkanoic acid -**

haloalkane dehalogenases, halohydrin dehalogenases, Reaction mechanisms of 2-haloacid dehalogenases (Adapted from Nardi-Dei et al., 1997): (a)  
[http://www.academicjournals.org/article/article1380721947\\_Hamid%20et%20al.pdf](http://www.academicjournals.org/article/article1380721947_Hamid%20et%20al.pdf)

## **Purification and characterization of thermostable -**

Purification and characterization of thermostable and nonthermostable 2-haloacid dehalogenases with different mechanism of haloalkane dehalogenase  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC201661/>

## **Purification and characterization of hydrolytic -**

Purification and characterization of hydrolytic haloalkane dehalogenase from Xanthobacter autotrophicus haloacid dehalogenase from Haloalkane Dehalogenases  
<https://www.pubmedcentral.nih.gov/pmc/articles/PMC219169/>

## **Gene Details - Haloacid dehalogenase-like -**

PubMed ID: 18366103 . Category: 5. Paper with respect to other organisms. Author(s): Kurihara, T. and Esaki, N. Title: Bacterial hydrolytic dehalogenases and related  
<http://sam.truman.edu/features/18>