

microsomal epoxide hydrolase

Cat. No. EXWM-4006 Lot. No. (See product label)

| Introduction | |
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| Description | This is a key hepatic enzyme that is involved in the metabolism of numerous xenobiotics, such as 1,3-butadiene oxide, styrene oxide and the polycyclic aromatic hydrocarbon benzo[a]pyrene 4,5-oxide. In a series of oxiranes with a lipophilic substituent of sufficient size (styrene oxides), monosubstituted as well as 1,1- and cis-1,2-disubstituted oxiranes serve as substrates or inhibitors of the enzyme. However, trans-1,2-disubstituted, tri-and tetra-substituted oxiranes are not substrates. The reaction involves the formation of an hydroxyalkyl-enzyme intermediate. In vertebrates, five epoxide-hydrolase enzymes have been identified to date: EC 3.3.2.6 (leukotriene-A4 hydrolase), EC 3.3.2.7 (hepoxilin-epoxide hydrolase), EC 3.3.2.10 (soluble epoxide hydrolase) and EC 3.3.2.11 (cholesterol-5,6-oxide hydrolase). epoxide hydratase (ambiguous); microsomal epoxide hydratase (ambiguous); epoxide hydratase (ambiguous); epoxide hydratase (ambiguous); microsomal epoxide hydratase (ambiguous); epoxide hydratase (ambiguous); epoxide hydratase (ambiguous); epoxide hydratase (ambiguous); microsomal epoxide hydratase (ambiguous); e |
| | (ambiguous); benzo[a]pyrene-4,5-oxide hydratase; benzo(a)pyrene-4,5-epoxide hydratase; aryl epoxide hydrase (ambiguous); cis-epoxide hydrolase; mEH |
| Product Information | |
| Form | Liquid or lyophilized powder |
| EC Number | EC 3.3.2.9 |
| Reaction | cis-stilbene oxide + H2O = $(+)-(1R,2R)-1,2$ -diphenylethane-1,2-diol |
| Notes | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications. |

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.