Dihydromorin Inhibitor

PRODUCT OVERVIEW

Product Name	Dihydromorin, Inhibitor
Full Product Name	Dihydromorin
Form/Format	Solid. Powder
Purity/Purification	98.00%
Preparation and Storage	Store at -20 degree C for 3 years powder -80 degree C for 2 years in solvent
Molecular Weight	304.3
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
Formula	C15H12O7
SMILES	O[C@H]([C@@H](c(ccc(O)c1)c1O)Oc1c2c(O)cc(O)c1)C2=O
CAS Number	18422-83-8
Target & IC50	TRP
In Vitro	But their inhibitory effects were different in two cell lines. In b16 cells, oxyresveratrol showed stronger depigmenting effect than trans- Dihydromorin, with greater suppression on tyrosinase activity. Both of them induced post-transcriptional degradations of microphthalmia-associated transcription factor (MITF), leading to significant decreases of tyrosinase related protein 1 (TRP-1) and tyrosinase related protein 2 (TRP-2) production. In melan-a cells, trans- Dihydromorin exhibited stronger inhibition on melanin synthesis. It also induced greater suppression on the levels of tyrosinase, TRP-1 and TRP-2 via MITF down-regulation at both transcription and translation level. Evaluations in artificial skin model also demonstrated the depigmenting effects of trans- Dihydromorin[1]
Product Categories/Family for Dihydromorin, inhibitor	Membrane transporter/Ion channel; TRP/TRPV Channel
Related Product Information for Dihydromorin, inhibitor	trans-Dihydromorin is an effective hypopigmenting agent in normal skin cells, hypopigmenting agents effective in melanoma system may not be effective on normal melanocytes, indicating that a non-tumor melanocyte system is more suitable for the screening of hypopigmenting agents.
Product References and Citations for Dihydromorin, inhibitor	Oxyresveratrol and trans -dihydromorin from the twigs of Cudrania tricuspidata as hypopigmenting agents against melanogenesisJ. Funct. Foods, 2015,13:375-83. Oxyresveratrol and trans -dihydromorin from the twigs of Cudrania tricuspidata as hypopigmenting agents against melanogenesisJ. Funct. Foods, 2015,13:375-83. Isolation of tyrosinase inhibitors from Artocarpus heterophyllus and use of its extract as antibrowning agent.Mol. Nutr. Food Res., 2008,52(12):1530-8.
Other Notes	Small volumes of Dihydromorin, inhibitor vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Dihydromorin purchase	MBS5760316 is an inhibitor targeting Dihydromorin.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/inhibitor/dihydromorin/5760316