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DATASHEET

Dexmedetomidine hydrochloride

Product overview

Name	Dexmedetomidine hydrochloride
Cat No	HB2686
Alternative names	d-Medetomidine hydrochloride
Biological action	Agonist
Purity	>99%
Description	Potent, highly selective α_2 adrenoceptor agonist.

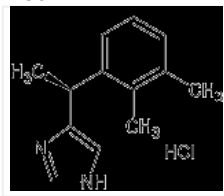
Biological Data

Biological description	Potent, highly selective α_2 adrenoceptor agonist (K_i values are 1.08 and 1750 nM at α_2 and α_1 receptors, respectively). Active isomer of medetomidine. Shows greater selectivity for α_1 -adrenoceptors than clonidine and UK14304. Shows various actions such as hypotensive, bradycardic, anxiolytic, hypothermic, sedative and analgesic properties.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (100 mM), and in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	4-[(1S)-1-(2,3-Dimethylphenyl)ethyl]-1H-imidazole hydrochloride
Molecular Weight	236.74
Chemical structure	
Molecular Formula	$C_{13}H_{16}N_2 \cdot HCl$
CAS Number	145108-58-3
PubChem identifier	6918081
SMILES	<chem>CC1=C(C(=CC=C1)[C@H](C)C2=CN=CN2)C.Cl</chem>
InChi	InChI=1S/C13H16N2.ClH/c1-9-5-4-6-12(10(9)2)11(3)13-7-14-8-15-13;/h4-8,11H,1-3H3,(H,14,15);1H/t11-;/m0./s1
InChiKey	VPNGEIHDP SLNMU-MERQFXBCSA-N
Appearance	White solid