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DATASHEET

Imiquimod hydrochloride (water soluble)

Product overview

Name	Imiquimod hydrochloride (water soluble)
Cat No	HB8528
Alternative names	R 837, R-837, R837
Biological action	Agonist
Purity	>98%
Description	Water soluble Toll-like receptor 7 (TLR7) agonist. Stimulates cytokine production.

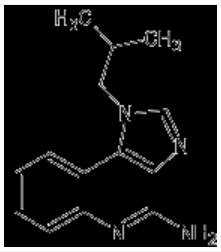
Biological Data

Biological description	Water soluble TLR7 agonist and Caspase-3 activator. Immune response modulator. Stimulates proinflammatory cytokine production and activates NF-κB. Shows antiproliferative, antiviral, anti-inflammatory and anti-cancer actions. Also induces apoptosis.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (5 mg/ml with warming), in ethanol (5 mg/ml with warming), and in DMSO (2 mg/ml)
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-Amino-1-isobutyl-1H-imidazo(4,5-c)quinoline hydrochloride
Molecular Weight	276.11
Chemical structure	
Molecular Formula	$C_{14}H_{16}N_4.HCl$
CAS Number	99011-78-6
PubChem identifier	13982876
SMILES	CC(C)CN1C=NC2=C1C3=CC=CC=C3N=C2N.Cl
Source	Synthetic
InChi	InChI=1S/C14H16N4.ClH/c1-9(2)7-18-8-16-12-13(18)10-5-3-4-6-11(10)17-14(12)15;/h3-6,8-9H,7H2,1-2H3,(H2,15,17);1H
InChiKey	RGKLRAHQVIHCCH-UHFFFAOYSA-N
Appearance	White solid

References

The antitumoral mode of action of imiquimod and other imidazoquinolines.

Schön M et al (2007) Current medicinal chemistry 14
PubMedID 17346155

The pharmacology of endosomal TLR agonists in viral disease.

Averett DR et al (2007) Biochemical Society transactions 35
PubMedID 18031247