

Product datasheet

GSK484, PAD4 inhibitor ab223598

Overview

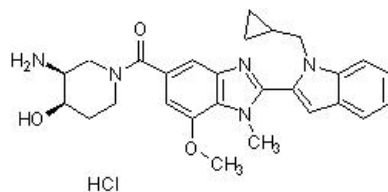
Product name	GSK484, PAD4 inhibitor
Description	Potent, reversible inhibitor of PAD4
Biological description	Potent and reversible inhibitor of PAD4 (Protein Arginine Deiminase 4) (IC ₅₀ = 50 nM). Selective for PAD4 over PAD1-3. GSK484 binds at a different site from the amidines, a conformation of the PAD4 active site where part of the site is re-ordered to form a β-hairpin. It blocks the citrullination of PAD4 target proteins in human neutrophils and inhibits the formation of neutrophil extracellular traps in both mouse and human neutrophils.

Purity > 98%

General notes Protect from air and moisture.

CAS Number 1652591-81-5

Chemical structure



Properties

Chemical name	((3 <i>S</i> ,4 <i>R</i>)-3-Amino-4-hydroxypiperidin-1-yl)(2-(1-(cyclopropylmethyl)-1 <i>H</i> -indol-2-yl)-7-methoxy-1-methyl-1 <i>H</i> -benzo[<i>d</i>]imidazol-5-yl)methanone hydrochloride
Molecular weight	510.03
Molecular formula	C ₂₇ H ₃₁ N ₅ O ₃ ·HCl
PubChem identifier	86340151
Storage instructions	Shipped at 4°C. Store at -20°C or -80°C. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 50 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions](#)

[\(FAQ\) page](#) for more details.

SMILES

CN1C2=C(C=C(C=C2OC)C(=O)N3CC[C@H]([C@H](C3)N)O)N=C1C4=CC5=CC=CC=C5N4CC6CC6.CI

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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