

Product Data Sheet

Product Name: MS-1020

Cat. No.: GC40791

Chemical Properties

Cas. No. 1255516-86-9

SMILES O=C(C1=CC=C(C=CC=C2)C2=C1O)NCCC3=CNC4=C3C=C(O)C=C4

Formula C₂₁H₁₈N₂O₃

M.Wt 346.4

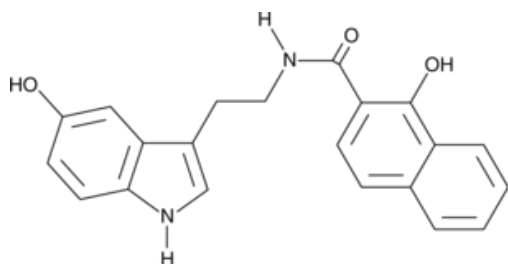
Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

MS-1020 is a cell-permeable inhibitor of janus kinase 3 (JAK3), strongly inhibiting constitutive autophosphorylation of JAK3 in L540 cells when used at 30-50 μM. It is without effect on other JAK isoforms and several other kinases, including Src, Lyn, Akt, EGFR, and ERK1/2. Through its effects on JAK3, MS-1020 blocks phosphorylation of downstream signal transduction and activators of transcription isoforms, reducing the expression of anti-apoptotic genes, leading to cell death.

Caution: Product has not been fully validated for medical applications. For research use only.

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