

Product Data Sheet

Product Name: XS-060
Cat. No.: GC73215

Chemical Properties

Cas. No. 346721-50-4

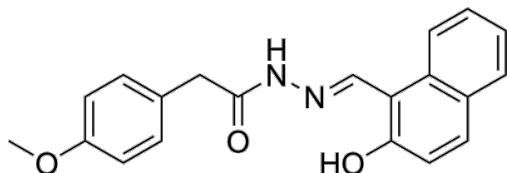
Formula $C_{20}H_{18}N_2O_3$ M.Wt 334.37

Solubility DMSO : 175 mg/mL (523.37 mM; Storage -20°C
Need ultrasonic)

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

XS-060 is a potent anticancer agent and RXR α antagonist. XS-060 significantly induces RXR α -

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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dependent mitotic arrest by inhibiting pRXR α -PLK1 interaction. XS-060 inhibits p-RXR α interaction with PLK1 but has no effect on RXR α heterodimerization with RAR γ . XS-060 inhibits the in situ interaction between p-RXR α and PLK1 at the centrosome.

XS-060 targeting the RXR α 's coactivator binding site can inhibit pRXR α -PLK1 interaction and exhibits good antitumor activity as an anti-mitotic agent[1]. XS-060 shows anti-proliferative activity against MDA-MB 231 cancer cells, with an IC₅₀ of $6.880 \pm 0.059 \mu\text{M}$ [1].

XS-060 (25 mg/kg, IP or PO, once) displays good absorption by intraperitoneal injection, but oral absorption is very poor[1].

References:

- [1]. Chen J, et al. Discovery of bipyridine amide derivatives targeting pRXR α -PLK1 interaction for anticancer therapy. Eur J Med Chem. 2023 Apr 6;254:115341.
- [2]. Xie G, et al. Centrosomal Localization of RXR α Promotes PLK1 Activation and Mitotic Progression and Constitutes a Tumor Vulnerability. Dev Cell. 2020 Dec 21;55(6):707-722.e9.

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