
Product Data Sheet

Product Name: YW3-56 (hydrochloride)

Cat. No.: GC45176

Chemical Properties

Cas. No.

SMILES CN(C)C1=CC=C2C(C=CC(C(N[C@@H](CCCCN(CCI)=N)C(NCC3=CC=CC=C3)=O)=O)=C2)=C1.ClFormula $C_{27}H_{32}ClN_5O_2 \cdot HCl$ M.Wt 530.5Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$ General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

YW3-56 is an inhibitor of protein arginine deiminase 2 (PAD2) and PAD4 ($IC_{50}s = 0.5-1$ and $1-5 \mu M$, respectively). It inhibits the growth of U2OS osteosarcoma cells ($IC_{50} = \sim 2.5 \mu M$) in a p53-dependent manner via induction of SESN2 and subsequent inhibition of mTORC1. YW3-56 (10 mg/kg) reduces tumor growth in an S-180 murine sarcoma tumor model. It also inhibits tumor growth in the 1883 MDA-MB-231 breast cancer bone metastasis mouse xenograft model.

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