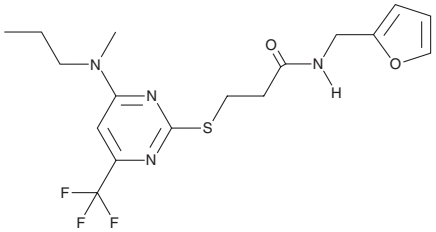
PRODUCT INFORMATION

SET2

Item No. 40360



CAS Registry No.: 2313525-20-9
Formal Name: N-(2-furanylmethyl)-3-[[4-(methylpropylamino)-6-(trifluoromethyl)-2-pyrimidinyl]thio]-propanamide
MF: $C_{17}H_{21}F_3N_4O_2S$
FW: 402.4
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SET2 is supplied as a solid. A stock solution may be made by dissolving the SET2 in the solvent of choice, which should be purged with an inert gas. SET2 is soluble in (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Description

SET2 is an inhibitor of transient receptor potential vanilloid 2 (TRPV2; IC_{50} = 0.46 µM).[1] It selectively inhibits currents induced by the TRP channel modulator 2-APB (Item No. 64970) in a patch-clamp assay using HEK293T cells overexpressing TRPV2 at 0.3 or 1 µM over HEK293T cells overexpressing TRPV1 or TRPV3 at 3 or 10 µM. SET2 (20 µM) reduces migration induced by lysophosphatidic acid (LPA) in PC-3M prostate cancer cells to a similar extent as the LPA receptor 1 (LPA1) antagonist AM966 (Item No. 22048). It also reduces LPA-induced increases in current in a patch-clamp assay using HEK293T cells when used at a concentration of 10 µM.

Reference

1. Chai, H., Cheng, X., Zhou, B., *et al.* Structure-based discovery of a subtype-selective inhibitor targeting a transient receptor potential vanilloid channel. *J. Med. Chem.* **62(3)**, 1373-1384 (2019).

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