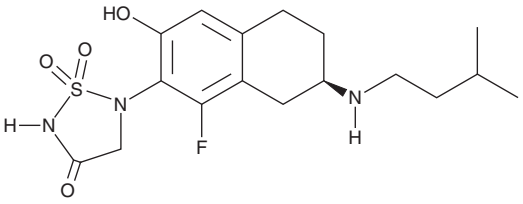
PRODUCT INFORMATION

ABBV-CLS-484

Item No. 46979

CAS Registry No.: 2489404-97-7
Formal Name: 5-[(7R)-1-fluoro-5,6,7,8-tetrahydro-3-hydroxy-7-[(3-methylbutyl)amino]-2-naphthalenyl]-1,2,5-thiadiazolidin-3-one, 1,1-dioxide
Synonym: Osunprotafib
MF: $C_{17}H_{24}FN_3O_4S$
FW: 385.5
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

ABBV-CLS-484 is supplied as a solid. A stock solution may be made by dissolving the ABBV-CLS-484 in the solvent of choice, which should be purged with an inert gas. ABBV-CLS-484 is sparingly soluble (1-10 mg/ml) in acetonitrile and DMSO.

ABBV-CLS-484 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

ABBV-CLS-484 is a dual inhibitor of protein tyrosine phosphatase 1B (PTP1B), also known as PTPN1, and T cell protein tyrosine phosphatase (TCPTP), also known as PTPN2 (IC_{50}s = 2.5 and 1.8 nM, respectively).[1] It is selective for PTP1B and TCPTP over PTP1C/PTPN6 and PTP2C/PTPN11 (IC_{50}s = >10 µM for both) but does inhibit protein tyrosine phosphatase MEG2/PTPN9 (IC_{50} = 15 nM). ABBV-CLS-484 (1 µM) potentiates IFN-γ-induced inhibition of B16/F10 mouse melanoma cell growth. It increases the percentage of monocytes expressing high levels of IFN-stimulated genes (ISG^{high}), $CD8^+$ effector T cells, and natural killer (NK) cells in the tumor microenvironment in a B16/F10 murine melanoma model. ABBV-CLS-484, in combination with an anti-PD-1 antibody, reduces tumor volume in a CT26 murine colon cancer model.

Reference

1. Baumgartner, C.K., Ebrahimi-Nik, H., Iracheta-Vellve, A., *et al*. The PTPN2/PTPN1 inhibitor ABBV-CLS-484 unleashes potent anti-tumour immunity. *Nature* **622(7984)**, 850-862 (2023).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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