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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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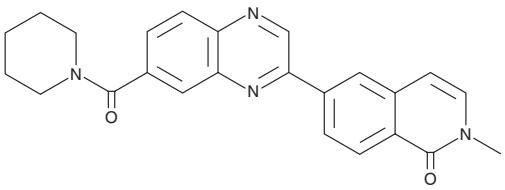
PRODUCT INFORMATION

CAY10795

Item No. 37981

CAS Registry No.:	2241676-74-2
Formal Name:	2-methyl-6-[7-(1-piperidinylcarbonyl)-2-quinoxalinyl]-1(2H)-isoquinolinone
Synonyms:	15-PGDH Inhibitor, 15-hydroxy Prostaglandin Dehydrogenase Inhibitor
MF:	$C_{24}H_{22}N_4O_2$
FW:	398.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 269 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

CAY10795 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10795 in the solvent of choice, which should be purged with an inert gas. CAY10795 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CAY10795 in ethanol is approximately 25 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

CAY10795 is a 15-hydroxy prostaglandin dehydrogenase (15-PGDH) inhibitor (IC_{50} = 3 nM).[1] It increases prostaglandin E_2 (PGE_2; Item No. 14010) levels greater than 3-fold in IL-1β-stimulated A549 human lung cells when used at a concentration of 500 nM. CAY10795 reduces 15-PGDH activity in the colon of mice when administered at a dose of 20 mg/kg and limits decreases in body weight and colon length and reduces colon ulceration in a mouse model of ulcerative colitis induced by dextran sodium sulfate (DSS; Item No. 23250) when administered at a dose of 40 mg/kg. It also accelerates recovery of circulating neutrophils following whole-body radiation and bone marrow transplant in mice when administered at a dose of 10 mg/kg twice per day.

Reference

1. Hu, B., Toda, K., Wang, X., *et al.* Orally bioavailable quinoxaline inhibitors of 15-prostaglandin dehydrogenase (15-PGDH) promote tissue repair and regeneration. *J. Med. Chem.* **65(22)**, 15327-15343 (2022).

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