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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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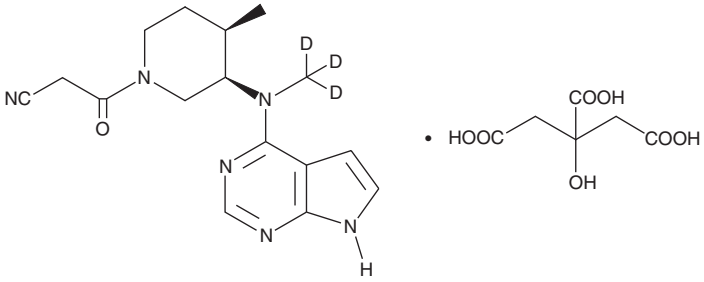
PRODUCT INFORMATION

CP 690,550-d_3

Item No. 25046

Formal Name:	(3R,4R)-4-methyl-3-(methyl-d_3-7H-pyrrolo[2,3-d]pyrimidin-4R-ylamino)-β-oxo-1-piperidinepropanenitrile, 2-hydroxy-1,2,3-propanetricarboxylate
Synonym:	Tofacitinib citrate-d_3
MF:	$C_{16}H_{17}D_3N_6O \bullet C_6H_8O_7$
FW:	507.5
Chemical Purity:	≥98% (CP 690,550)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as:	A 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

CP 690,550-d_3 is intended for use as an internal standard for the quantification of CP 690,550 (Item No. 11598) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

CP 690,550-d_3 is supplied as a solid. A stock solution may be made by dissolving the CP 690,550-d_3 in the solvent of choice. CP 690,550-d_3 is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 5 mg/ml.

Description

CP 690,550 is a potent, cell-permeable inhibitor of all JAK isoforms (IC_{50}s = 6.1, 12, and 8 nM for JAK1, JAK2, and JAK3, respectively).[1] It is selective for JAK1-3 over ROCK-2 and Lck (IC_{50}s = 3,400 and 3,870 nM, respectively) as well as 28 additional kinases in enzyme assays (IC_{50}s = >10,000 nM). It inhibits IL-2-mediated phosphorylation of JAK3 and STAT5 when used at a concentration of 30 ng/ml.[2] CP 690,550 prevents rejection and prolongs survival in murine and cynomolgus monkey models of heterotopic heart and kidney transplantation, respectively. Formulations containing CP 690,550 have been used in the prevention of organ allograft rejection as well as in the treatment of the inflammatory or autoimmune components of a host of diseases, including rheumatoid arthritis and ulcerative colitis.[2-5]

References

1. Haan, C., Rolvering, C., Raulf, F., *et al. Chem. Biol.* **18(3)**, 314-323 (2011).
2. Changelian, P.S., Flanagan, M.E., Ball, D.J., *et al. Science* **302(5646)**, 875-878 (2003).
3. Flanagan, M.E., Blumenkopf, T.A., Brissette, W.H., *et al. J. Med. Chem.* **53(24)**, 8468-8484 (2010).
4. Cutolo, M. *Ther. Adv. Musculoskelet. Dis.* **5(1)**, 3-11 (2013).
5. Sandborn, W.J., Ghosh, S., Panes, J., *et al. N. Engl. J. Med.* **367(7)**, 616-624 (2012).

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