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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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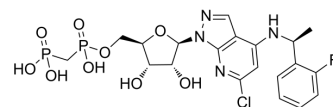
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AB-680

Cat. No.: HY-125286
CAS No.: 2105904-82-1
Molecular Formula: C₂₀H₂₄ClFN₄O₉P₂
Molecular Weight: 580.82
Target: CD73
Pathway: Immunology/Inflammation
Storage: -20°C, stored under nitrogen
 * In solvent : -80°C, 1 years; -20°C, 6 months (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (344.34 mM; Need ultrasonic)
 H₂O : 5 mg/mL (8.61 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.7217 mL	8.6085 mL	17.2170 mL
	5 mM		0.3443 mL	1.7217 mL	3.4434 mL
	10 mM		0.1722 mL	0.8609 mL	1.7217 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 7.5 mg/mL (12.91 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 7.5 mg/mL (12.91 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 7.5 mg/mL (12.91 mM); Clear solution
4. Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline
Solubility: ≥ 2.5 mg/mL (4.30 mM); Clear solution
5. Add each solvent one by one: 5% DMSO >> 95% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (4.30 mM); Suspended solution; Need ultrasonic
6. Add each solvent one by one: 1% DMSO >> 99% saline
Solubility: ≥ 0.5 mg/mL (0.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AB-680 is a highly potent, reversible and selective inhibitor of CD73 (an ecto-nucleotidase), with a K_i of 4.9 pM for hCD73,

	displays >10,000-fold selectivity over related ecto-nucleotidases CD39. Anti-tumor activity ^[1] .
IC ₅₀ & Target	Ki: 4.9 pM (hCD73) ^[1] IC ₅₀ : 43 pM (Soluble hCD73) ^[1]
In Vitro	AB-680 (AB680) inhibits soluble hCD73 with an IC ₅₀ of 0.043 nM, also inhibits hCD73 in CHO cells, suppresses CD73 in human, mouse CD8 ⁺ T Cells and hPBMC, with IC ₅₀ s of 0.070, 0.008, 0.66 and 0.011 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2023 Jun 8;14(1):3364.
- Adv Sci (Weinh). 2023 Oct 22:e2302498.
- J Immunother Cancer. 2021 Jul;9(7):e002503.
- Cancer Immunol Res. 2022 Nov 21;CIR-22-0260.
- Front Immunol. 2022, 13: Online ahead of print.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Lawson KV, et al. Discovery and Characterization of AB680, a Potent and Selective Small-Molecule CD73 Inhibitor for Cancer Immunotherapy.

Caution: Product has not been fully validated for medical applications. For research use only.

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