


Certificate of Analysis

Catalog Number	BP10773
Product Name	DBEQ

Physical and Chemical Properties

Synonyms	JRF 12
CAS No.	177355-84-9
Chemical Formula	C ₂₂ H ₂₀ N ₄
Molecular Weight	340.43
Solubility	DMSO: 34 mg/mL (100 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	DBEQ(JRF-12) is a selective, potent, reversible, and ATP-competitive p97 inhibitor.
Targets&IC50	p97: 1.5 μ M

In vitro	Cells are seeded on a 384-well solid white plate (5,000 cells/well). Cells are transfected with luciferase siRNA or p97 siRNA (10 nM) for 48 hours or treated with DBeQ for the indicated amount of time. Caspase-3/7 Glo, caspase-6 Glo, caspase-8 Glo, or caspase-9 Glo is added into each well and mixed by shaking at 500 rpm for 1 min. Luminescence signal is determined after incubation at room temperature for 1 hour. Cellular viability is determined with CellTiter-Glo reagen. To determine the IC50 of cellular viability, cells are treated with MG132 or DBeQ at seven concentrations (threefold serial dilutions starting at 33 μ M) for 48 hours. IC50 values are calculated from fitting the percentage of luminescence signal normalized to DMSO treated cells).(Only for Reference)
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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