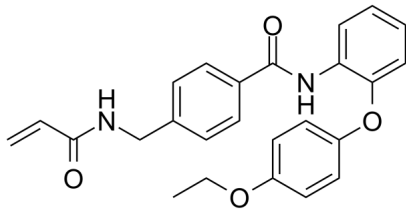


## Certificate of Analysis

Catalog Number	BP13200
Product Name	EN4

## Physical and Chemical Properties

Synonyms	EN4 MYC inhibitor
CAS No.	1197824-15-9
Chemical Formula	C <sub>25</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight	416.477
Solubility	DMSO: 250 mg/mL (600.28 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	EN4 MYC inhibitor is a covalent ligand that targets cysteine 171 (C171) of MYC. It is selective for c-MYC over N-MYC and L-MYC, and inhibits MYC transcriptional activity, downregulates MYC targets, and impairs tumorigenesis.
In vitro	EN4 (50 $\mu$ M; for 60 hours) treatment significantly decreases the protein levels of representative MYC-regulated target genes, including CDK2 and CDC25A. EN4 treatment also substantially reduces MYC levels. EN4 shows the strongest inhibition of both MYC/MAX binding to its DNA consensus sequence in vitro as well as MYC transcriptional activity in cells. EN4 inhibited MYC/MAX binding to the E-box response element DNA consensus sequence in a dose-responsive manner with an IC50 value of 6.7 $\mu$ M. EN4 also inhibits MYC luciferase reporter activity in a dose-responsive manner with an IC50 value of 2.8 $\mu$ M. EN4 (1-50 $\mu$ M; for 72 hours) treatment significantly impairs 231MFP breast cancer cell proliferation in a dose-dependent manner, with >90% inhibition of proliferation at 50 $\mu$ M. EN4 (50 $\mu$ M; for 2 hours) treatment significantly reduced MYC thermal stability in 231MFP breast cancer cells.

## 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.

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