Print Date: May 20th 2021

Certificate of Analysis

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Product Name: **Ro 08-2750** **Catalog No.: 2272** **Batch No.: 3**

CAS Number: 37854-59-4

IUPAC Name: 2,3,4,10-Tetrahydro-7,10-dimethyl-2,4-dioxobenzo[*g*]pteridine-8-carboxaldehyde

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{10}N_4O_3.½H_2O$

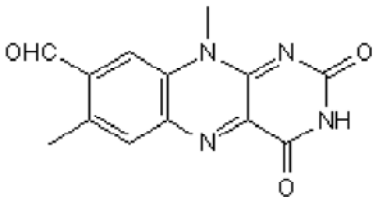
Batch Molecular Weight: 279.25

Physical Appearance: Orange solid

Solubility: DMSO to 10 mM with gentle warming

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.91	3.97	20.06
Found	56.32	3.59	20.32

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Description:

Non-peptide inhibitor of NGF that binds the NGF dimer (K_D ~ 1 µM) possibly causing a conformational change. Selectively inhibits binding of NGF to $p75^{NTR}$ at submicromolar concentrations, and to both $p75^{NTR}$ and TrkA at concentrations > 5 µM. Prevents NGF-induced apoptosis in SK-N-MC cells. Suppresses cancer cell proliferation via regulation of Hippo signaling aand YAP phosphorylation.

Physical and Chemical Properties:

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Physical Appearance: Orange solid

Minimum Purity: ≥95%

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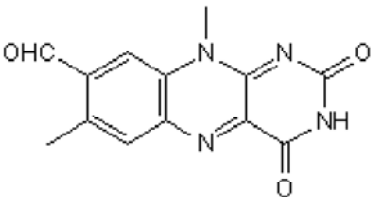

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

When purchsed as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Yang *et al* (2018) NTRK1 is a positive regulator of YAP oncogenic function. Oncogene ***38*** 2778. PMID: 30542115.

Arkin and Wells (2004) Small-molecule inhibitors of protein-protein interactions: progressing towards the dream. Nat.Rev.Drug Discov. ***3*** 301. PMID: 15060526.

Niederhauser *et al* (2000) NGF ligand alters NGF signaling via p75NTR and TrkA. J.Neurosci.Res. ***61*** 263. PMID: 10900073.