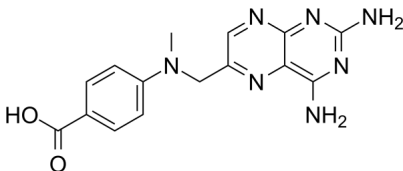


Certificate of Analysis

Catalog Number	BP13344
Product Name	Methotrexate metabolite

Physical and Chemical Properties

Synonyms	DAMPA
CAS No.	19741-14-1
Chemical Formula	C ₁₅ H ₁₅ N ₇ O ₂
Molecular Weight	325.332
Solubility	DMSO: 4 mg/mL (12.30 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Methotrexate metabolite is the active metabolite of Methotrexate which is a folic acid antagonist. Methotrexate metabolite inhibits parasite growth.
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In vitro	<p>Methotrexate metabolite was the most active, with 50% inhibitory concentrations in vitro of 446 ng/ml against the antifolate-sensitive strain and 812 ng/ml against the highly resistant strain under physiological folate conditions. Methotrexate metabolite potentiates the activity of the sulfone dapsone, an inhibitor of dihydropteroate synthase, but not that of chlorcycloguanil, a known inhibitor of dihydrofolate reductase (DHFR).</p>
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	<p>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.</p>

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v2 Revision on 12/28/2022