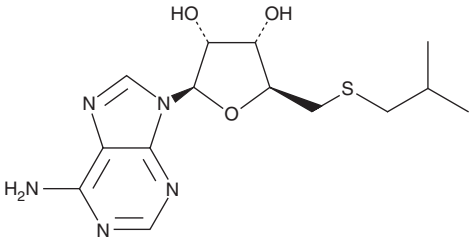
PRODUCT INFORMATION

SIBA

Item No. 38758

CAS Registry No.:	35899-54-8
Formal Name:	5′-S-(2-methylpropyl)-5′-thio-adenosine
Synonyms:	5'-Deoxy-5'-S-isobutyladenosine, 5'-S-Isobutylthioadenosine
MF:	$C_{14}H_{21}N_5O_3S$
FW:	339.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 261 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SIBA is supplied as a solid. A stock solution may be made by dissolving the SIBA in the solvent of choice, which should be purged with an inert gas. SIBA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of SIBA in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Description

SIBA is an isobutylthio-modified derivative of the amino acid derivative S-adenosylhomocysteine (SAH; Item No. 13603).[1] It reduces viral infectivity in HEp-2 cells infected with herpes simplex virus 1 (HSV-1) when used at a concentration of 1 mM.[2] SIBA (0.5 and 1 mM) inhibits the oncogenic transformation of primary chicken embryo fibroblasts induced by Rous sarcoma virus (RSV).[1] It decreases the number of metastases in a model of rhabdomyosarcoma in rats fed a low methionine diet when administered at a dose of 15 mg/kg three times weekly.[3]

References

1. Robert-Géro, M., Lawrence, F., Farrugia, G., *et al.* Inhibition of virus-induced cell transformation by synthetic analogues of S-adenosyl homocysteine. *Biochem. Biophys. Res. Commun.* **65(4)**, 1242-1249 (1975).
2. Jacquemont, B. and Huppert, J. Inhibition of viral RNA methylation in herpes simplex virus type 1-infected cells by 5' S-isobutyl-adenosine. *J. Virol.* **22(1)**, 160-167 (1977).
3. Breillout, F., Poupon, M.F., Blanchard, P., *et al.* Association of SIBA treatment and a Met-depleted diet inhibits *in vitro* growth and *in vivo* metastatic spread of experimental tumor cell lines. *Clin. Exp. Metastasis* **6(1)**, 3-16 (1988).

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