

TAN 1364B PRODUCT DATA SHEET

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Product Name: TAN 1364B

Product Number: T066

CAS Number: 154639-24-4

Molecular Formula: $C_{21}H_{36}O_5$

Molecular Weight: 368.5

Appearance: White Solid

Storage Conditions: -20°C

Description: TAN 1364B is the most abundant analogue of a tetronic acid complex isolated

from Streptomyces species, first patented by Takeda in 1993 and more formally identified by Ciba Geigy as the sodium salt of 3-hexadecanoyl-5-hydroxymethyltetronic acid. In 1995 researchers at RIKEN reported the isolation of 3-hexadecanoyl-5-hydroxymethyltetronic acid, named as RK-682.

Subsequent synthesis in 2001 showed that the RIKEN RK-682 was in fact the

calcium complex of TAN 1364B formed as an artefact during silica

chromatography. As the complex, salt or free acid, TAN 1364B inhibits protein tyrosine phosphatases, phospoholipase A2, heparinase and HIV-1 protease. However, it is unclear whether biological activity is due to the monomer (TAN

1364B) or dimeric complex (RK-682)

TAN 1364B is soluble in ethanol, methanol, DMF and DMSO.

References: Tetronic acid derivative, its production and use. Susumu S. et al. Japan Patent

5043568 1993.

Asymmetric synthesis of a 3-acyltetronic acid derivative, RK-682, and

formation of its calcium salt during silica gel column chromatography. Sodeoka

M. et al. Chem. Pharm. Bull. 2001, 49, 206.

3-Alkanoyl-5-hydroxymethyl tetronic acid homologues and resistomycin: new inhibitors of HIV-1 protease. I. Fermentation, isolation and biological activity.

Roggo B.E. J. Antibiot. 1994, 47, 136.

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