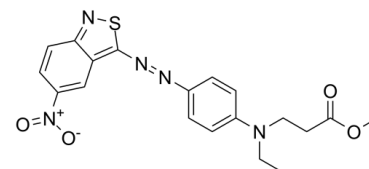


Data Sheet

Product Name:	Disperse Blue 148
Cat. No.:	CS-5574
CAS No.:	52239-04-0
Molecular Formula:	C ₁₉ H ₁₉ N ₅ O ₄ S
Molecular Weight:	413.45
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : ≥ 30 mg/mL (72.56 mM); DMSO : 20 mg/mL (48.37 mM); Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Disperse Blue 148 is the best high-temperature trichromatic blue azo dye. Target: Single-crystal structures of the best high-temperature trichromatic blue azo dye C.I. Disperse Blue 148 and its diazonium component 3-amino-5-nitro-[2,1]-benzisothiazole are described herein. C.I. Disperse Blue 148 exhibits an essentially coplanar molecular structure and a dimeric packing mode between adjacent phenyl and benzisothiazole rings. Particularly, PXRD measurement reveals the existence of a new crystalline form of C.I. Disperse Blue 148 having the highest melting point and the best thermal stability, which is obviously different from all the known α , β , and γ forms. [1]

References:

[1]. Hui-Fen Qian, et al. Structural and spectral characterizations of C.I. Disperse Blue 148 having a new crystalline form. *Dyes and Pigments* Volume 99, Issue 2, November 2013, Pages 489-495

CAIndexNames:

β -Alanine, N-ethyl-N-[4-[2-(5-nitro-2,1-benzisothiazol-3-yl)diazenyl]phenyl]-, methyl ester

SMILES:

CCN(CCC(OC)=O)C1=CC=C(C=C1)N=NC2=C(C=C([N+][O-])=O)C=C3C3=NS2

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA