

WATER SOLUBLE NEAR INFRARED ABSORPTION DYE

ADS795WS

INTRODUCTION

American Dye Source, Inc. offers gram to kilogram quantities of near infrared absorption dyes, for research and production purposes. Custom synthesis of near infrared absorption dyes is also available.

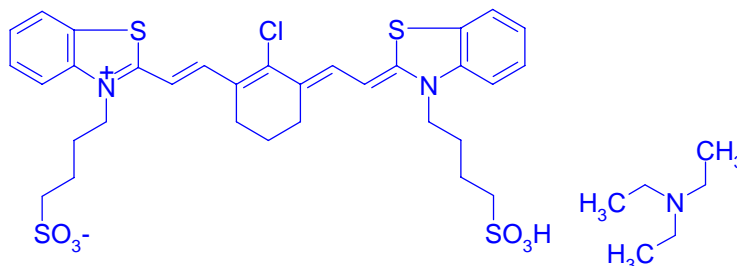
DESCRIPTION

ADS795WS is 2-[2-[2-Chloro-3-[2-(3-(4-sulfobutyl)-3H-benzthiazol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]-ethenyl]-3-(4-sulfobutyl)enzthiazonium, inner salt, triethylammonium salt. **ADS795WS** is highly soluble in water and methanol, as well as other solvents. This NIR dye is ideal for use in security printings, lithographic printing plates, and many other applications.

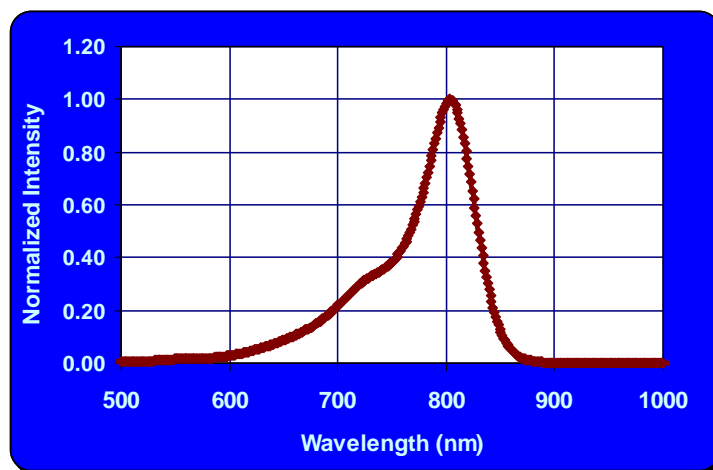
TECHNICAL DATA

- ❑ Appearance: Dark green powder
- ❑ Chemical formula: $C_{38} H_{49} N_3 O_6 S_4 Cl$
- ❑ Purity: > 98.0%
- ❑ Formula weight: 807.52 g mol⁻¹
- ❑ Melting point: 157 – 159 °C
- ❑ Absorption maximum: 803 nm (MeOH)
- ❑ Absorption coefficient: 1.26×10^5 L/mol cm

STRUCTURE



SPECTRA



Absorption spectra of ADS795WS in methanol solution

CONTACT INFORMATION

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