

FRONTIER
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Pure and (not so) simple

Frontier Specialty Chemicals, Inc. **Technical Data Sheet**
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Catalog Number: **B850**

www.frontiersci.com

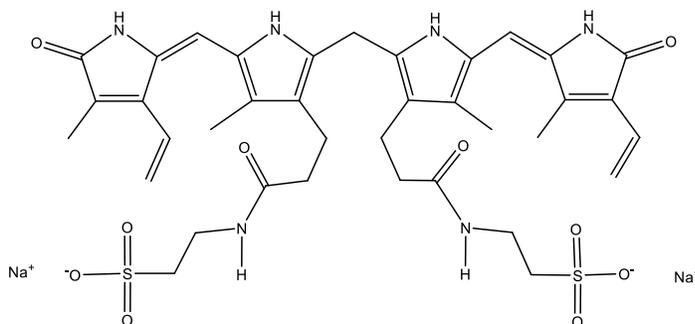
sales@frontiersci.com

For research use only

Not intended or approved for
diagnostic or therapeutic use.

Product Name: Bilirubin Conjugate
Ditaurine amide of bilirubin (disodium salt)

Catalog Number: B850



Size: 100 mg, 200mg, 1g, and 5g. Larger quantities available upon request.

Molecular Formula: C₃₇H₄₄N₆O₁₀S₂Na₂

Molecular Weight: 842.91

CAS: 68683-34-1

MFCD: MFCD00044931

Storage: Store at -20 °C, under Argon, hygroscopic, protect from light

Purity: >98% combined di- and mono-conjugated bilirubin with <10% mono-conjugated bilirubin

Important Note: Bilirubin Conjugate is produced from bilirubin isolated from porcine bile.

Field of Interest: Substrate for Proteins, Receptors and Transport Membranes and Indicator of Disease States

Background: Bilirubin conjugates are found prevalent in a variety of disease states related to jaundice and hepatocellular dysfunction.^{1,2} The conjugates are studied in cellular and animal models of disease, where binding to transport proteins and organic anion transporters has been established.^{3,4} Its role in orphan disease states and hyperconjugation are the result of oxidation and inflammation processes in situ.^{5,6}

References

- (1) König *et al.*, *American Journal of Physiology*, **278**, G156 (2000)
- (2) Stocker *et al.*, *Proceedings of the National Academy of Science* **84** 5918 (1987)
- (3) Cui *et al.*, *Journal of Biological Chemistry*, **276**, 9626 (2001)
- (4) Seppen *et al.*, *Journal of Clinical Investigation* **94**, 2385 (1994)
- (5) Basten *et al.*, *Carcinogenesis* **23**, 1355(2002)
- (6) Shoda *et al.*, *American Journal of Gastroenterology* **96**, 3368 (2001)

Hazardous Properties and Cautions: The toxicological and pharmacological properties of this compound are not fully known. For further information see the SDS on request. **Bilirubin conjugate** is manufactured, shipped according to standard practices, and intended for research and development in a laboratory utilizing prudent procedures for handling chemicals of unknown toxicity, under the supervision of persons technically qualified to evaluate potential risks and authorized to enforce appropriate health and safety measures. As with all research chemicals, precautions should be taken to avoid unnecessary exposures or risks.

Warranty and Disclaimer: Frontier Specialty Chemicals, Inc. warrants the product conforms to the specifications stated herein. In the event of nonconformity, Frontier will replace products or refund purchase price, at its sole option, and Frontier shall not be responsible for any other loss or damage, whether known or foreseeable to Frontier. No other warranties apply, express or implied, including but not limited to warranty of fitness for any purpose or implied warranty of merchantability. Purchaser is solely responsible for all consequences of its use of the product and Frontier assumes no responsibility therefore, including success of purchaser's research and development, or health or safety of any uses of the product.