PRODUCT INFORMATION



Tauro-α-muricholic Acid (sodium salt)

Item No. 20288

CAS Registry No.: 2260905-08-4

Formal Name: $2-[[(3\alpha,5\beta,6\beta,7\alpha)-3,6,7-trihydroxy-$

24-oxocholan-24-yl]amino]-

ethanesulfonic acid, monosodium salt

Synonyms: Tauro-α-muricholate, TαMCA

C₂₆H₄₄NO₇S • Na MF:

FW: 537.7 **Purity:** ≥95%

Supplied as: A crystalline solid

Storage: -20°C Stability: ≥2 years

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

Laboratory Procedures

Tauro-α-muricholic acid (TαMCA) (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the TαMCA (sodium salt) in the solvent of choice. TαMCA (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of TαMCA (sodium salt) in ethanol is approximately 1 mg/ml and approximately 10 mg/ml in DMSO and DMF.

TaMCA (sodium salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TaMCA (sodium salt) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. TaMCA (sodium salt) has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

T α MCA is an antagonist of the farnesoid X receptor (FXR; IC₅₀ = 28 μ M) and a taurine-conjugated form of the murine-specific primary bile acid α -muricholic acid (Item No. 20291). TaMCA is common in rodents but has also been found in small amounts in human serum.²

References

- 1. Sayin, S.I., Wahlström, A., Felin, J., et al. Gut microbiota regulates bile acid metabolism by reducing the levels of tauro-beta-muricholic acid, a naturally occurring FXR antagonist. Cell Metab. 17(2),
- 2. García-Cañaveras, J.C., Donato, M.T., Castell, J.V., et al. Targeted profiling of circulating and hepatic bile acids in human, mouse, and rat using a UPLC-MRM-MS-validated method. J. Lipid Res. 53(10), 2231-2241 (2012).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website

Copyright Cayman Chemical Company, 04/14/2020

• Na⁺

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM