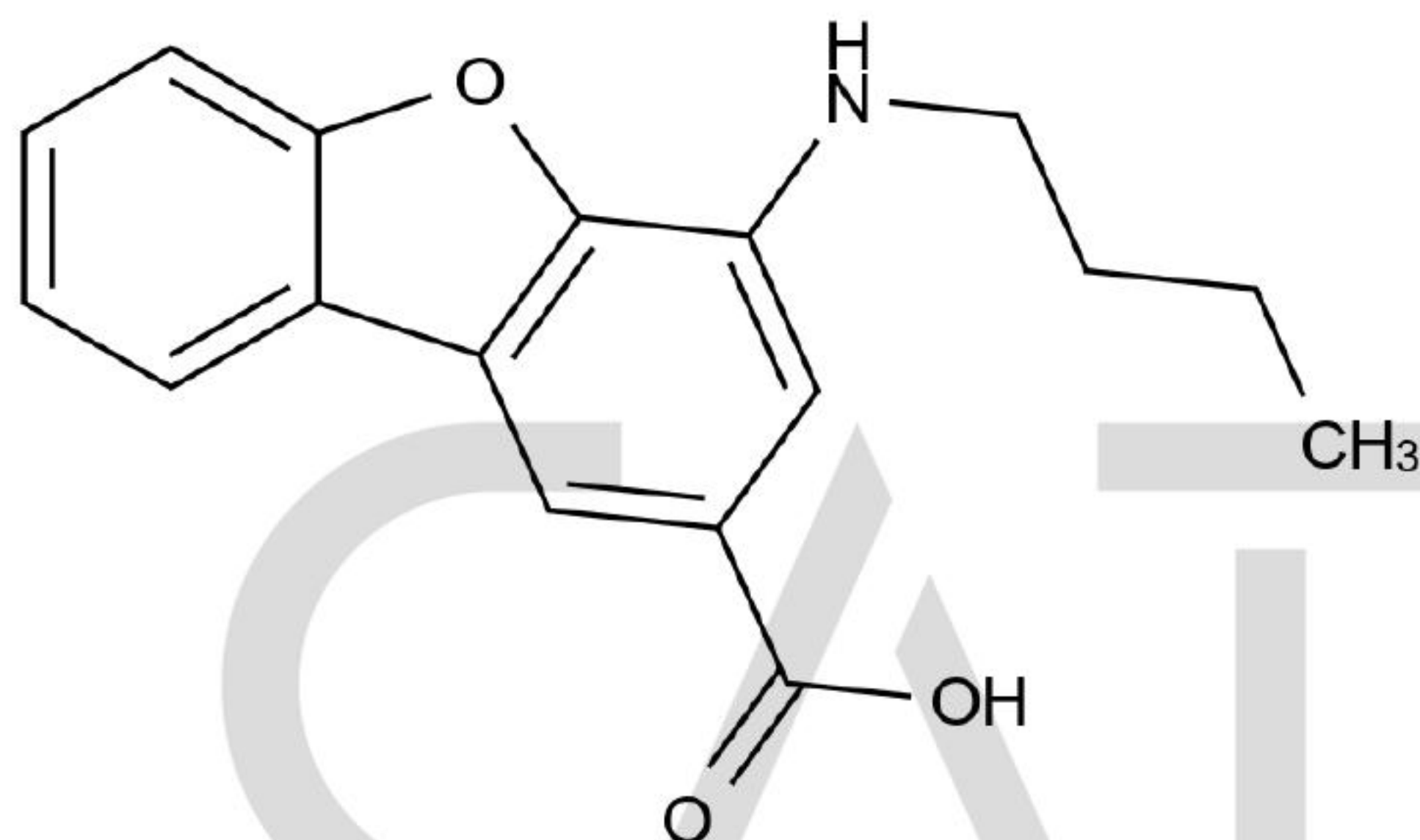


Certificate of Analysis

Reference Material & Standard

Product Name:	Bumetanide Impurity 40	Catalogue Number:	C4X-198640
Synonyms:	4-(Butylamino)dibenzo[b,d]furan-2-carboxylic acid	Lot Number:	0821-RH-0075
CAS Number:	688047-82-7	Expiry Date:	Sep 09, 2030
Molecular Formula:	C ₁₇ H ₁₇ NO ₃	Storage:	-20°C±5°C Sealed
Molecular Weight:	283.32	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.084%
Residue on Ignition	TGA	0.4240%
Loss on Drying	TGA	0.1683%
Assay	qNMR	98.5%
Assay	Mass Balance	98.5%

Comment:

- The retest date of this product is Sep 09, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Sep 10, 2026

Date: Sep 10, 2026

Date: Sep 10, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

