# **Certificate of Analysis**

## www.tocris.com

#### Product Name: CX08005

CAS Number: 1256341-22-6 IUPAC Name: 2-[[[2-(Tetradecyloxy)phenyl]amino]carbonyl]benzoic acid

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility:

C<sub>28</sub>H<sub>39</sub>NO<sub>4</sub> 453.61 White solid DMSO to 100 mM ethanol to 100 mM Store at +4°C

Storage: **Batch Molecular Structure:** 

# 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: **Microanalysis:** 

R<sub>f</sub> = 0.5 (Ethyl acetate) Shows 98.9% purity Consistent with structure Consistent with structure A 114

OH 0

HN

	Carbon Hydrogen Nitrogen			
Theoretical	74.14	8.67	3.09	
Found	74.13	8.79	2.92	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Print Date: Jun 22<sup>nd</sup> 2018

Catalog No.: 6144 Batch No.: 1

# biotechne b

## **Product Information**

#### Print Date: Jun 22<sup>nd</sup> 2018

### www.tocris.com

#### Product Name: CX08005

**Description:** 

CAS Number: 1256341-22-6 **IUPAC Name:** 2-[[[2-(Tetradecyloxy)phenyl]amino]carbonyl]benzoic acid

Competitive PTP1B inhibitor (IC<sub>50</sub> = 0.781  $\mu$ M). Binds catalytic

P-loop of enzyme. Improves insulin sensitivity in obese mice in

the glucose tolerance test and the homeostasis model

assessment of insulin resistance index (HOMA-IR) . Enhances insulin-induced glucose uptake in adipocytes and myotubes in

vitro. Exhibits some selectivity for PTP1B over other protein

Storage: Store at +4°C

#### Solubility & Usage Info:

DMSO to 100 mM ethanol to 100 mM

#### **Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

## Physical Appearance: White solid

tyrosine phosphatases, except TCPTP.

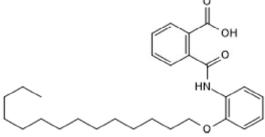
**Physical and Chemical Properties:** 

Batch Molecular Formula: C<sub>28</sub>H<sub>39</sub>NO<sub>4</sub>

Batch Molecular Weight: 453.61

#### Minimum Purity: >98%

#### **Batch Molecular Structure:**



Zhang et al (2016) A novel protein tyrosine phosphatase 1B inhibitor with therapeutic potential for insulin resistance. Br.J.Pharmacol. 173 1939. PMID: 26990621.

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**References:**