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DATASHEET

Tissue Clearing Kit

Product overview

Name

Tissue Clearing Kit

Cat No

HB8771

Biological description

Hello Bio tissue clearing kit enables the easy and quick clearing of tissue and organoids for volumetric imaging without requiring any specialized equipment.

Key features:

- Rapid clearing in as little as a day (1mm tissue sections and organoids)
- Aqueous (non-solvent) based therefore compatible with standard microscope lenses
- Ideal for fluorescent imaging with low quenching after clearing
- Contains all key reagents needed including antibody penetration buffer and mounting solution.
- Widely compatible with most fluorophores and fluorescent proteins
- Preserves cell structures and morphology
- No specialized equipment required

Check out our representative 3D reconstructions:

Biological action

Kit

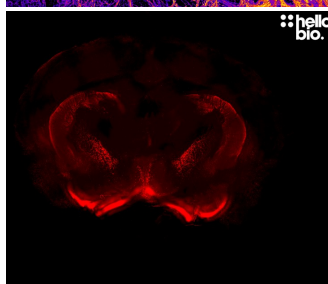
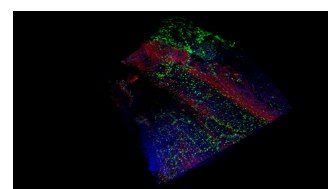
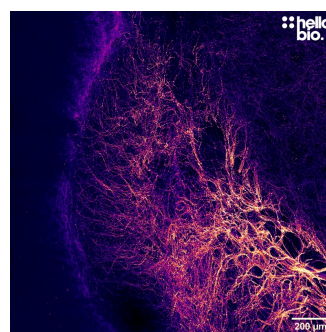
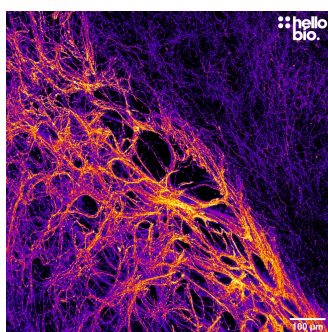
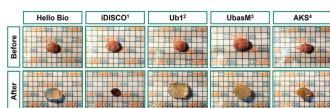
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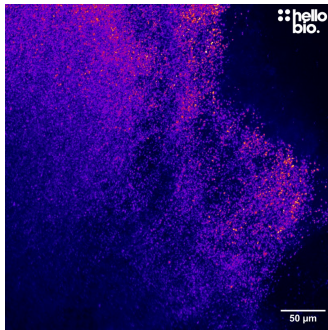
fluorescence imaging, IF

Description

Simple rapid tissue clearing kit for volumetric imaging

Images





Biological Data

Application notes Please view our full [tissue clearing protocol](#). Representative clearing times are as follows:

Sample Type	Fixation time	Total Clearing Time
1 mm tissue	~12 hours	~1 day
3 mm tissue	~12 hours	~5 days
3 - 7 mm tissue	~24 hours	~5 days
>7mm tissue	~24 hours	~8 days
Organoid	~30 minutes	~1 day

Solubility & Handling

Storage instructions -20°C

Handling Please note that some of the solutions require warming to 37°C and any precipitate redissolving before use

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

- Kit contents**
- Tissue clearing solution A (30 ml)
 - Tissue clearing solution B (60 ml)
 - Antibody penetration buffer (100 ml) - also [available to purchase separately](#)
 - Mounting and Storage solution (100 ml) - also [available to purchase separately](#)
 - DAPI staining solution (30 ml)

References

Tutorial: practical considerations for tissue clearing and imaging.

Weiss KR et al (2021) Nature protocols 16
PubMedID [34021294](#)

Tissue clearing and 3D imaging in developmental biology.

Vieites-Prado A et al (2021) Development (Cambridge, England) 148

PubMedID 34596666

Tissue Clearing and Its Application in the Musculoskeletal System.

Zhan YJ et al (2023) ACS omega 8

PubMedID 36687066
